

Environmental Services Department Water & Waste Management On-Site Wastewater Program

CHAMBER TECHNOLOGY

Design Guide For an ON-SITE WASTEWATER TREATMENT FACILITY (OSWTF)

A basic guide to designing a Conventional* OSWTF to serve a single family residence in Maricopa County. This guide includes instruction on how to design an OSWTF and submit a complete application called the Notice of Intent to Discharge (NOID) Packet.

^{*} A standard septic tank and disposal field design specified in this guide is intended to serve most sites where no limiting conditions are identified by the site investigation conducted under the Aquifer Protection Permit Rule - R18-9-A311. Typical disposal fields are: Trenches, Leach Beds, Seepage Pits or Chamber Technologies.

^{**}Design requirements are subject to revision

ENVIRONMENTAL SERVICES DEPARTMENT

John A. Power, P.E., MPA, Director 1001 North Central, Ste. 150 Phoenix, AZ 85004



DIVISION OF WATER AND WASTE MANAGEMENT

Kevin S. Chadwick, P.E., Division Manager (602) 506-6666 FAX (602) 506-6925 TT (506) 6704

Phase II (Notice of Intent to Discharge-NOID) Submittal Checklist

INCORRECT OR INCOMPLETE PHASE II (NOID) PACKETS WILL NOT BE ACCEPTED

	plication (see attached sewer determination sheet)	
 Location of floodway and floodplain (Se	ee attached Floodway/Floodplain instructions)	
 Completed NOID application with origin	nal signature of OWNER or letter of authorization	
All pages in design packet requiring pe	rmit number and signature must be submitted	
	n, parcel number, building permit tracking number	
	l all rooms and plumbing fixtures clearly labeled	
	Calculations Worksheets used to design the system	
	tank and Cross Sections of disposal components	
		1:4.
	ipment for constructing on-site wastewater treatment facil	
	ns, percolation tests or seepage pit performance tests, if n	Οt
conducted by MCESD staff A310.B	5 4 7 9 9 4 7 9 9 1 H 1 H 1 H 5	_
	of $1''=30'$, $1''=20'$, or $1''=10'$. Break lines are prohibited! F	or
	fit parcel on one sheet of paper. On-site system, the	
	te area shall be on a separate sheet drawn using an	
acceptable scale. Indicate scale and no	rth arrow on site plan. Maximum paper size is 24"x36".	
Site plans shall include the	following (see example or refer to R18-9-A301(B)	
and R18-9-A309(B) for deta	iled requirements):	
Location of septic tank,	distribution box, distribution lines, primary and reserve	
disposal areas (drawn t	o scale and indication north arrow)	
Location of all test hole		
	s, driveways, washes, and/or drainage easements on site	
	and setbacks; indicate distance from property lines	
•	d water line from well or meter to building	
	th appropriate contour interval, showing original and final	
Indicate topograpny, w grades	th appropriate contour interval, showing original and final	
<u> </u>	h, etc.) less than 200' from the proposed site which may	
		~
•	ne proposed OSWTF or reserve areas. Indicate if bordering	J
lots are vacant or built-		
	ssures (minimum setback of 100' required)	
	property owner, site address, permit number, subdivision	
	r legal description, and parcel number	
Signature Block, signed	by designer, on first submission and any revision	
 Water company name		
 Recorded Shared Well Agreement with s	survey OR Affidavit of Agreement to Encroach (otherwise,	
tank and disposal area must be greater	than 50' from property line), if water is not supplied by a	
common water system		
<u> </u>	ey with legal description of all lots involved in split is	
required		
	One Stop Shop or other permitting agency, if required	
	ons to the site, with distances from paved cross streets	
	imentation, clearly label as REVISED and the date of the	
 revision in the top right corner of the do		
		c
	rite the permit number issued by MCESD on all documents	3
 Applicable fees, check or cash only, due	at time of submittal (see ree schedule)	
Accelled the Characters	Dat	
Applicant's Signature	Date	

10/25/2007

1

FLOODWAYS AND FLOOD PLAINS AUGUST 1, 2005

FLOOD PLAINS = BUILDING PAINS

Due to the increasing numbers of homes being built in and around Floodways and Flood Plains in Maricopa County it is important that you check to insure your parcel is not located in a flood plain or flood way. A septic permit will not be issued for those homes in the Flood Plains and Floodways, without prior approval from Maricopa County Flood Control Department. You can check your parcel on line at http://www.maricopa.gov/Maps/ to see if you are with in a Flood Plain or Floodway or by telephone at (602) 506-1501. As always each submittal must have:

- Site plans must identify all washes and drainage patterns with flow rates.
- Site plans must identify Flood plains, and Flood way boundaries.
- Drainage and Grading reports must be submitted.

http://www.maricopa.gov/Assessor/

- 1.) Enter parcel number.
- 2.) Click "Submit".
- 3.) Click "View GIS Map".
- 4.) Click "OK" on the disclaimer.
- 5.) Locate menu on the lower right side of screen.
- 6.) Scroll down to "Zoom Selected".
- 7.) Locate the menu on the left hand side of the screen.
- 8.) Click on "down arrow"
- 9.) Scroll all the way down to "FLOODPLAINS", click on it
- 10.) Print

http://www.fcd.maricopa.gov/Maps/

- 1.) Click on "100-year FEMA Flood Plain Maps".
- 2.) Click on "OK" on the disclaimer.
- 3.) Locate "Parcel" in the upper right side of the screen.
- 4.) Click on it.
- 5.) In the pop-up box enter parcel number.
- 7.) Click "Find".
- 8.) Print

For parcels in Rio Verde:

(note: all parcels start with Book: 219 and Map: 37 thru 42)

- 1.) Click on "Rio Verde Preliminary Flood Plains".
- 2.) Click on "OK" on the disclaimer.
- 3.) Locate "Parcel" in the upper right side of the screen.
- 4.) In the pop-up box enter parcel number.
- 5.) Click "Find".
- 6.) Print

SEWER DETERMINATION

THE OWNER OR PERSON REQUESTING TO INSTALL AN ONSITE SYSTEM MUST DETERMINE THE LOCATION OF THE NEAREST SEWER TAP TO THE PROPERTY. ARIZONA ADMINISTRATIVE CODE R18-9-A309.A.5 SETS REQUIREMENTS FOR HOOK-UP TO SANITARY SEWER.

"A PERSON...SHALL CONNECT TO A SEWAGE COLLECTION SYSTEM IF:

- ...B. A SEWER SERVICE LINE EXTENSION IS AVAILABLE AT THE PROPERTY BOUNDARY AND BOTH OF THE FOLLOWING APPLY:
 - I. THE SERVICE CONNECTION FEE IS NOT MORE THAN \$6000 FOR A DWELLING... AND
 - II. THE COST OF CONSTRUCTING THE BUILDING SEWER FROM THE WASTEWATER SOURCE TO THE SERVICE CONNECTION IS NOT MORE THAN \$3000 FOR A DWELLING..."

MARICOPA COUNTY PROVIDES THE PHONE NUMBERS BELOW TO BEGIN YOUR SEARCH. SOME MUNICIPALITIES MAY HAVE MORE STRINGENT REQUIREMENTS AND WILL REQUIRE CONNECTION TO CITY SEWER. A STATEMENT INDICATING THE AVAILABILITY OF THE SEWER IS NEEDED PRIOR TO ANY SUBMITTAL TO THE ENVIRONMENTAL SERVICES DEPARTMENT.

AVONDALE	623-478-3330	www.ci.avondale.az.us
BUCKEYE	623-386-2487	www.buckeyeaz.gov
CAVE CREEK	480-488-1400	www.cavecreek.org
CHANDLER	480-782-3800	www.chandleraz.gov
CAREFREE	480-488-3638	www.carefree.org
EL MIRAGE	623-933-8318	www.cityofelmirage.org
GILBERT	480-503-6000	www.ci.gilbert.az.us
GLENDALE	623-930-2000	www.ci.glendale.az.us
GOODYEAR	623-932-1637	www.ci.goodyear.az.us
MESA	480-644-4273	www.cityofmesa.org
PARADISE VALLEY	480-348-3528	www.ci.paradise-valley.az.us
PEORIA	623-773-7210	www.peoriaaz.com
PHOENIX	602-262-6551	www.ci.phoenix.az.us
QUEEN CREEK	480-987-0496	www.queencreek.org
SCOTTSDALE	480-312-2356	www.ci.scottsdale.az.us
SURPRISE	623-583-0947	www.surpriseaz.com
TEMPE	480-350-8341	www.tempe.gov
TOLLESON	623-936-7141	www.tollesonaz.org

MARICOPA COUNTY ENVIRONMENTAL SERVICES MAKES EVERY ATTEMPT TO PROVIDE ACCURATE INFORMATION. PHONE NUMBERS MAY CHANGE WITHOUT OUR KNOWLEDGE.

CHAPTER I MARICOPA COUNTY HEALTH CODE WATER & WASTE MANAGEMENT DIVISION ON-SITE WASTEWATER PROGRAM AND WELL PROGRAM FEE SCHEDULE (excerpt)*** - Effective July 21, 2006

BASE PLAN REVIEW FEE SCHEDULE	
*Septic Tank Conventional Disposal, less than 3000 gal./day	\$550.00
Aerobic System with Surface Disposal	\$1050.00
Composting Toilet, less than 3000 gal/day	\$400.00
Septic tank with one additional alternative element**	\$1050.00
Septic tank with >one additional alternative element**	\$1050 plus \$250 per additional element
On-site wastewater treatment facility with flow from 3000 gal/day to less than 24,000 gal/day	\$1800.00
**These alternative disposal elements are all for systems of less that following: pressure distribution systems, gravelless trenches, natural mounds, engineered pad systems, intermittent sand filters, peat filt sewage vaults, aerobic systems/subsurface disposal, aerobic system constructed wetlands, sand lined trenches, disinfection devices, sequirrigation systems.	al seal evapotranspiration beds, Wisconsin ers, textile filters, Ruck® Systems, ns/surface disposal, cap systems,
On-Site System Site Inspection	\$325.00
On-Site System Site Inspection and Domestic Well Approval	\$375.00
On-Site System Alteration Permit	\$75.00
On-Site System Alteration Permit and One Inspection	\$400.00
On-Site System Reconnect/Remodel Review	\$135.00
On-Site System Reconnect/Remodel Review and One Inspection	\$400.00
On-Site System Plan Revision	\$100.00
On-Site System Request for Alternate Design, Installation, or Operational Feature	\$75.00
On-Site System Design Requiring Interceptor	\$200.00 per Interceptor
On-Site System Transfer of Ownership	\$50.00
On-Site System Abandoned Site	\$175.00
Domestic Well Approval	\$65.00

^{*}Gravity-fed trenches, seepage pits, leach beds, or chambers. Includes up to two (2) plan reviews and three (3) construction inspections.

www.maricopa.gov/envsvc/BUSINESS/hlthcode.asp

The Expedited Plan Review Fee is twice the fee for that category.

Expedited Plan Reviews require prior Management approval.

^{***} To see the fee schedule in its entirety go to:

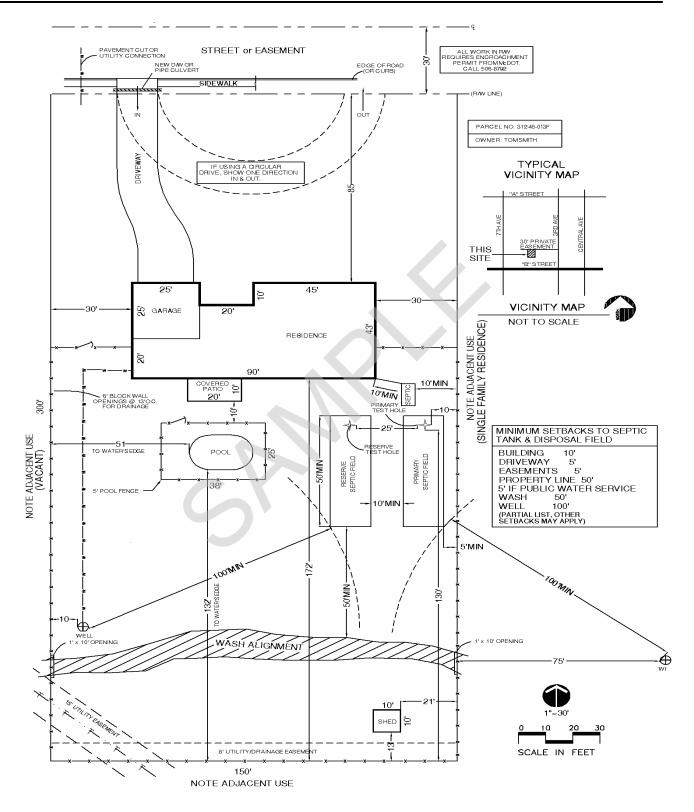




Planning & Development Department



TYPICAL RESIDENTIAL SITE PLAN



SAMPLE ONLY (DRAWING SHOWN IS NOT TO SCALE)
ADDITIONAL DETAILED PLANS MAY BE REQUIRED.

SETBACK DISTANCE CHART

The design of the On-Site Wastewater Treatment Facility shall comply with the setbacks indicated below.

Features Requiring Setbacks	Setback For An On- Site Wastewater Treatment Facility, Including Reserve Area (In Feet)	Special Provisions
1. Building	10	Includes porches, decks, and steps (covered or uncovered), breezeways, roofed patios, carports, covered walks, and similar structures and appurtenances.
Property line shared with any adjoining lot or parcel not served by a common drinking water system* or an existing drinking water well	50	A person may reduce the setback to a minimum of 5 feet from the property line if: a. The owners of any affected undeveloped adjacent properties agree, as evidenced by an appropriately recorded document, to limit the location of any new well on their property to at least 100 feet from the proposed treatment works and primary and reserve disposal works; and b. The arrangements and documentation are approved by the Department. * A "common drinking water system" means a system that currently serves or is under legal obligation to serve the property and may include a drinking water utility, a well-sharing agreement, or other viable water supply agreement.
3. All other property lines.	5	None
4. Public or private water supply well.	100	None
5. Perennial or intermittent stream	100	Measured horizontally from the high water line of the peak streamflow from a 10-year, 24-hour rainfall event.
6. Lake, reservoir, or canal	100	Measured horizontally from the high water line from a 10-year, 24-hour rainfall event at the lake or reservoir.
7. Drinking water intake from a surface water source (includes an open water body, downslope spring or a well tapping streamside saturated alluvium)	200	Measured horizontally from the on-site wastewater treatment facility to the structure or mechanism for withdrawing raw water such as a pipe inlet, grate, pump, intake or diversion box, spring box, well, or similar structure.
8. Wash or drainage easement with a drainage area more than 20 acres	50	Measured horizontally from the nearest edge of the defined natural channel bank or drainage easement boundary. A person may reduce the setback to 25 feet if natural or constructed erosion protection is approved by the appropriate floodplain administrator.
9. Water main or branch water line	10	None

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10. Domestic service water line	5	Measured horizontally between the water line and the wastewater pipe, except that the following are allowed:
		 a. A water line may cross above a wastewater pipe if the crossing angle is between 45 and 90 degrees and the vertical separation distance is 1 foot or more. b. A water line may parallel a wastewater pipe with a horizontal separation distance of 1 foot to 5 feet if the bottom of the water line is 1 foot or more above the top of the wastewater pipe and is in a separate trench or on a bench in the same trench.
11. Downslopes or cut banks greater than 15 percent, culverts, and ditches from:		
a. Treatment works components	10	Measured horizontally from the bottom of the treatment works component to the closest point of daylighting on the surface.
b. Trench, bed, chamber technology, or gravelless trench with:		Measured horizontally from the bottom of the lowest point of the disposal pipe or drip lines, as applicable, to the closest point of daylighting on the surface.
i. No limiting subsurface condition specified in R18-9- A310(D)(2),	20	
ii. A limiting subsurface condition.	50	
c. Subsurface drip lines.	3	Measured horizontally from the bottom of the lowest point of the disposal pipe or drip lines, as applicable, to the closest point of daylighting on the surface.
12. Driveway	5	Measured horizontally to the nearest edge of an on- site wastewater treatment facility excavation. A person may place a properly reinforced and protected wastewater treatment facility, except for disposal works, at any location relative to a driveway if access openings, risers, and covers carry the design load and are protected from inflow.
13. Swimming pool excavation	5	Except if soil loading or stability concerns indicate the need for a greater separation distance.
14. Easement (except drainage easement)	5	None
15. Earth fissures	100	None

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SHARED WELL EASEMENTS/AGREEMENTS

Shared well agreements may provide an adjustment to property line setback requirements as stated in the Arizona Aquifer Permit Rule, R-18-9-A312 C.

All shared well agreements MUST be recorded at the county recorders office and contain the following information:

- Effective date
- Parties involved (Grantor and Grantees; Parties to the Agreement)
- Recorded document number
- Full legal description of all the well site, easement and Servant parcels sharing the well with instrument number (all the parcels benefiting from sharing the well and easements)
- How the agreement will run with the land/deed for the parcels
- The relationship of each parcel to: (construction, operation and expenses)

General provisions

Management of the provisions of the agreement

Percentage ownership

Percentage share of cost for operation and maintenance of the well and easements

Resolution of conflicts

Conditions and Limitations

- Survey map (drawing or graphic showing the impacted parcels with dimensions, well site and easements). Recorded as part of document or as a separate document
- Title and Signature with date, of Grantor/Grantee (Parties to the Agreement) of all parcels
- Notary stamp, signature and date.
- Unofficial document will not be accepted

If you have questions or need additional information please contact us at the numbers listed above.

CHAMBER WORKSHEET

(to be submitted with NOID Application Packet)

FIXTURE COUNT CALCULATION CHART						
FIXTURE TYPE	FIXTURE UNIT		# OF FIXTURES		TOTAL UNITS	
Bath Tub	2	Χ		=		
Bidet	2	Х		=		
Clothes Washer	2	Х		II		
Dishwasher (separate from kitchen)	2	Х		=		
Lavatory (bathroom sink), single	1	Х		=		
Lavatory, double in master bedroom	1	Х		=		
Shower, single stall	2	Х		=		
Sink, bar	1	Х		=		
Sink, kitchen (incluing dishwasher)	2	Х		=		
Sink, service	3	Х				
Utility tub or Sink	2	Х		=		
Water Closet (toilet), 1.6 GPF	3	Х		=		
Water Closet (toilet), >1.6-3.2 GPF	4	Χ		=		
Water Closet (toilet), >3.2 GPF	6	Χ		=		
TOTAL FIXTURE UNITS						

Items in BOLD are the most commonly used fixtures.

"Bedroom" means, for the purposes of determining design flow for an on-site wastewater treatment facility for a dwelling, any room has:

- a). A floor space of at least 70 square feet in area, excluding closets;
- b). A ceiling height of at least 7 feet;
- c). Electrical service and ventilation;
- d). A closet or area where a closet could be constructed;
- e). At least one window capable of being opened and used for emergency egress; and
- f). A method of entry and exit into the room which allows it to be considered distinct from other rooms in the dwelling to afford a level of privacy customarily expected for such a room.

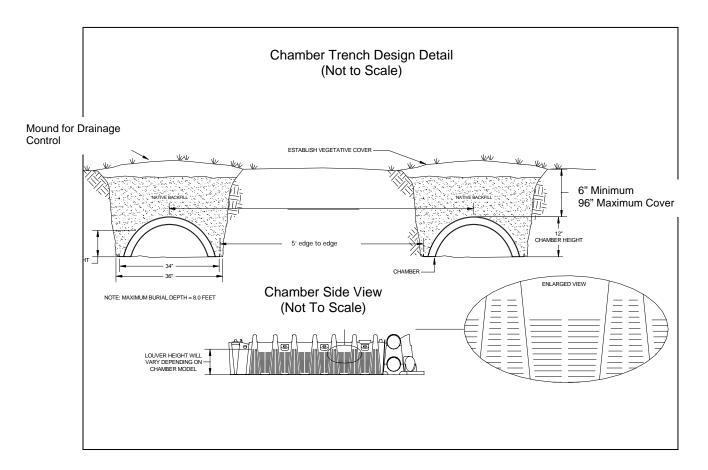
Bedroom/Equivalent Worksheet						
Room Type	Number of Rooms					
Bedroom						
Den						
Office						
Other:						
Other:						
Other:						
Total:						

Type of Chamber (circle one):	QUICK 4 STANDARD	QUICK 4 HIGH CAPA	CITY	ARC 36	ARC 36	нс	
Fill in the TANK SIZE from the C	· ·		K SIZE	=	- [Proposed Number	
Fill in the DESIGN FLOW from t	· ·		IGN FLOW	=	_	of Trenches	
Fill in the PERCOLATION RATE	from the Soils Report	PERO	C. RATE	=	_	Proposed Length	
Divide DESIGN FLOW by the Sa	AR from the Conversion Cha	rt. SAR		=	_	of each Trench	
This equals the total square foot T	tage of disposal area required OTAL SQUARE FOOTAGE		REQUIRED) =	_	Proposed Width of each Trench	
QUICK 4 STANDARD QUICK 4 HIGH CAPACITY BIODIFFUSER ARC 36 BIODIFFUSER ARC 36 HC	divisor is 6.42 divisor is 7.10 divisor is 6.36 divisor is 6.97	DIVIS	SOR USED	=	_	Proposed Number of Chambers per Trench Proposed Overall Depth of Trench (es)	
Divide the total square footage b	by the divisor, this will equal t	he total linear length of	trench requ	ired.		. ,	
The length of the Quick 4 chamber The length of the Biodiffuser characteristics and Divide the total length of trench	per (standard and high capac amber (ARC 36 and Arc 36H0	C) is 5 feet .			-	Separation Between Trench Excavations	

TOTAL NUMBER OF CHAMBERS = _

Cross Section for Chambers

(to be submitted with NOID Application Packet)



- 1. If the total linear length of trench is greater than 50' it is recommended that the total is divided into more than one trench of equal size to distribute the effluent throughout the disposal field more effectively separated by a distribution box.
- 2. If the total number of Biodiffuser chambers exceeds 20 or the total number of Quick4 chambers exceeds 25, it is recommended to divide this number into more than one trench of equal length.
- 3. The separation between trench edges is 5'.
- 4. For trenches, the maximum burial depth per chamber is 8' from the ground surface to the top of chamber. For leach beds, the maximum burial depth is 4' from the ground surface to the top of the chamber
- 5. Each chamber can be rotated 10 degrees at each connection to contour or avoid large obstructions.
- 6. The maximum length for any disposal field is 100'. Additional inspection risers are required for any trench greater than 50' in length placed in the center of the trench.

12/08/2006

^{**}This diagram is for example purposes only; it is not to TRUE scale.

SEPTIC SYSTEM SIZING CHARTS

Use the charts below to complete the Design Worksheet on the following page.

	SELECTING THE PROPER SIZE SYSTEM							
No. of Bedrooms*	Fixture Count	Minimum Septic Tank Size (gallons)	System Daily Design Flow (gallons per day)					
1	7 or less	1000	150					
	more than 7	1000	300					
2	14 or less	1000	300					
	more than 14	1000	450					
3	21 or less	1000	450					
	more than 21	1250	600					
4	28 or less	1250	600					
	more than 28	1500	750					
5	35 or less	1500	750					
	more than 35	2000	900					
6	42 or less	2000	900					
	more than 42	2500	1050					
7	49 or less	2500	1050					
	more than 49	3000	1200					
8	56 or less	3000	1200					
	more than 56	3000	1350					

*For a single residence with more than 8 bedrooms, use either the bedroom count or the fixture count, whichever is greater, and the following formulas: For Septic Tank Size: multiply the number of bedrooms by 150, then multiply that total by 2.1. This will equal the minimum septic tank size in gallons. OR multiply the total fixture units by 25, then multiply that total by 2.1. For System Daily Design Flow: multiply the number of bedrooms by 150, this will equal the minimum Design Flow in gallons per day. OR multiply the total fixture units by 25.

Obtain percolation rate from soil report. Use the chart below to determine Soil Absorption Rate (SAR). Then, use the Design Flow determined from the above chart. The formula used to determine the required square footage of disposal area is: DESIGN FLOW \div SAR. (Example: $600 \div 0.63 = 952$ sqft)

DESIGN FLOW CALCULATION TABLE-CHAMBER TECHNOLOGY										
		Design FlowGallons per Day								
		450	600	750	900	1050	1200	1350		
PERC RATE (min/inch)	SAR (gpd/sqft)		Required Square Footage of Disposal Area							
<1		NOT	ALLOWED	FOR CO	NVENTIONAL	_ DISPOS	AL			
1 to <3	1.2	375	500	625	750	875	1000	1125		
3	1.1	409	545	682	818	955	1091	1227		
4	1	450	600	750	900	1050	1200	1350		
5	0.90	500	667	833	1000	1167	1333	1500		
7	0.75	600	800	1000	1200	1400	1600	1800		
10	0.63	714	952	1190	1429	1667	1905	2143		
15	0.50	900	1200	1500	1800	2100	2400	2700		
20	0.44	1023	1364	1705	2045	2386	2727	3068		
25	0.40	1125	1500	1875	2250	2625	3000	3375		
30	0.36	1250	1667	2083	2500	2917	3333	3750		
35	0.33	1364	1818	2273	2727	3182	3636	4091		
40	0.31	1452	1935	2419	2903	3387	3871	4355		
45	0.29	1552	2069	2586	3103	3621	4138	4655		
50	0.28	1607	2143	2679	3214	3750	4286	4821		
55	0.27	1667	2222	2778	3333	3889	4444	5000		
55 to<60	0.25	1800	2400	3000	3600	4200	4800	5400		
60 to<120	0.20	2250	3000	3750	4500	5200	6000	6750		
>120		NOT	ALLOWED	FOR CO	NVENTIONAL	DISPOS	AL			

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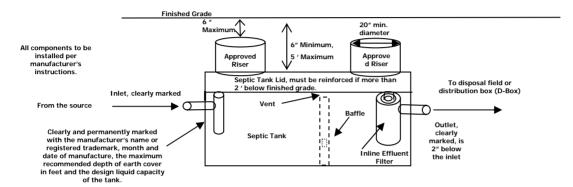
MATERIALS LIST FOR ON-SITE WASTEWATER TREATMENT FACILITY

OWNER:	
ADDRESS:	
Zip	
TANK MANUFACTURER:	
TANK SIZE:gallons.	
A. Concrete:	
B. Fiberglass:	
C. Polyethylene:	
D-BOX:4 hole6 holeOther:	
Material:ConcretePolyethylene	
TYPE OF AGGREGATE TO BE USED:	tons.
WASHED RE-CYCLED CONCRETE:	tons.
LENGTH OF PIPE:	
A. SOLID:Ft	
B. PERFORATEDFt	
C. SDR 35:NO	
CHAMBERS:	
A. TYPE:	
B. NUMBER:	
OTHER COMPONENTS:	
A. GEO-TEXTILEft.	
V 1	ft.
C. ALTERNATIVE SYSTEMS (Describe materials list	in detail):
D. PRESSURE DRIP SYSTEMS:	
Materials and quantity: (attach separate list)	
PRINT DESIGNER NAME:	
PRINT INSTALLER NAME:	ROC:

SEPTIC TANK AND DISTRIBUTION BOX (D-BOX) TIPS

(to be submitted with NOID Application Packet)

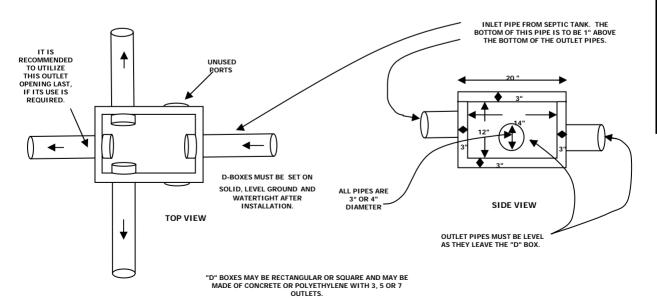
Consideration of how deep the plumbing stub-out is at the proposed septic tank location will determine how deep the tank and disposal field must be. Septic tanks that are installed so the top of the tank is two feet (2') to five feet (5') below finished grade will require additional reinforcement in the lid and risers. Tank lids that are greater than six inches (6") below finished grade are required to have risers installed so access openings on the top of the tank are within six inches (6") of finished grade. Tanks that are installed so the top of the tank is greater than five feet (5') deep are not allowed. In cases where the plumbing stub out is too deep to install the tank as described above the sewage may have to be pumped up to the tank from the source. If the designated reserve disposal field is at a higher elevation than the septic tank, across a wash or too far away (100' is the maximum separation between septic tank and disposal field), it may be required to have a lift station engineered and approved prior to utilizing the primary or reserve disposal fields.



It is recommended that the OSWTF be installed as shallow as possible to utilize the benefit of evaporation through the top soils.

TYPICAL DISTRIBUTION, "D", BOX

THE PURPOSE OF THE D-BOX IS TO DIVIDE THE LIQUID FLOW EVENLY THROUGHOUT THE DISPOSAL FIELD.



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OSWTF Permit 7

Maricopa County Environmental Services Department Water & Waste Management Division (Delegated Authority for ADEQ) 1001 N Central Ave, Suite 150

Phoenix, AZ 85004 Phone: (602) 506-6666 Fax: (602) 506 6925 COUNT

NOTICE OF INTENT TO DISCHARGE (NOID)

Under a General Aquifer Protection Permit for an On-Site Wastewater Treatment Facility (OSWTF)

Instructions: Fill out completely (<u>failure to do so will result in a delay of the permitting process</u>) and submit this NOID to obtain authorization to construct and approval to discharge from a new or altered OSWTF, including a **conventional septic tank and / or disposal field system or alternative on-site treatment and disposal technologies** covered by Aquifer Protection Permits. All required information must be submitted along with this application and applicable fees, cash or check only. **Print or type in black or blue INK** (pencil is not acceptable) all information except the signature black on page two. This application will expire one year from the date of submittal if Construction Authorization has **not** been issued

signa	ture block on page two. This application will expire one year from the da	ite of submittal i	if Construct	ion Authorizatior	n has not been iss	ued.
1.	Site Location:			Marico	one County A7	
	Subject Property Address:		City (if applicab	le)	opa County, AZ	Zip Code
	Cross Streets		Pa	rcel Number		
	Subdivision Name (if applicable):				Lot #(s)	
	Legal Description: Section Township Range				Acreage	
2.	Property Owner					
	Name:	F	Phone #			
	Current Mailing Address*: Street Name and Number	F	Fax #			
	City	Zip Code	wodie #			
	*Any changes to this address shall be submitted in writing to MCESD widays of the change. All documents from MCESD will be mailed to thi unless otherwise noted below. Returned mail will not be forwarded.					
3.	Authorized Agent_for Property Owner, (if none, then leave blank):					
	Business Name:					
	Agentic Name		Contractor	loopee #.		
	Agent's Name		Contractor i	licerise #:		
	Business Mailing Address:Street Name and Number		Phone #	<u></u>		
	Are you authorized to install the OSWTF? (circle one) YES	NO	Mobile =	#		
	If NO, fill out the Septic Installer information below:					
	After 30 Days, unclaimed Authorizations to Construct will be mailed to:					
4.	On-Site Installer - Person authorized to install the OSWT, (if same a			_		
	Business Name: Contact Person Name:			_ Contractor's Lic	cense #	
	Business Mailing Address: Street Name and Number	Ph	one #			
	City State	Fa	ıx #			
	City State	•	obile #			
	THIS IS A TWO (2) PAGE DOCUMENT; BOTH PAGES M	UST BE COM	1PLETED E	BEFORE SUBN	NITTING TO MO	CESD.
	THIS SPACE FOR (OFFICE U	SE ONL	Υ		
NOI	LICENSING TIME FRAMES D Log in DateBy					
	Paperwork Review				4.02 Other	
	Incomplete/HOLDBy			_gpd System T	ype:	
	Pre Const Completed By	BILLING P	URPOSE	AMT PD	RECEIPT #	DATE PD
	Pre Const -Incomplete/HOLDBy	PLAN REVIE	W / SITE			
SR I	Post Const Completed By	PLAN REVIE	W / SITE			
Site	Code:	OTHER				

5.	Site Details:
	SEWER (circle one) IS / IS NOT AVAILABLE WITHIN 400' OF THE PROPERTY.
	WATER SOURCE: (check one)Water Company: Water Company Name
	Holding Tank (hauling water) - Fifty foot (50') setback is required.
	Private Well
	Shared Well*- SWA Recording #
	Well Identification #
	* A copy of all shared well agreements, recorded as an attachment to the deed of the subject properties, may be required as supplemental information IF the fifty foot (50') setback to the common property line between the OSWTF and adjacent property can not be met AND there is
	not a well already installed on the adjacent property to the side that can not meet the required setback.
	ALL EXISTING WELLS ON AND WITHIN 200' OF THE SUBJECT PROPERTY ARE SHOWN ON THE SITE PLANS, (circle one). YES NO
,	Check One:Prior site work has been initiated and is on file with MCESD, W/WM. Existing file number(s)
6.	Narrative Description of Project: NEW - General Permit 4.02 (OSWTF which consists solely of a septic tank AND conventional disposal field circled below):
	(circle one) Trench Seepage Pit Leach Bed Chamber Technology
	ALTERATION - General Permit 4.02 (OSWTF which consists solely of a septic tank OR conventional disposal field circled below):
	(circle one) Tank Trench Seepage Pit Leach Bed Chamber Technology
	Any Other OSWTF. Describe proposed treatment and disposal train and indicate all applicable general permit numbers; indicate design flow and expected date of operation; describe sewage source and characteristics:
	THE OSWTF WAS DESIGNED USING A SEPTIC TANK SIZE AND A DESIGN FLOW TO:
	Serve a Single-Family Residence with typical household sewage.
	Serve a Single-Family Residence with typical household sewage and
	List all other sources and characteristics of the wastewater Serve Other Than a Single-Family Residence with typical household sewage.
	Serve Other Than a Single-Family Residence with other than typical household sewage. If other than a Single-Family Residence, then fill out the following information:
	Type of Facility Number of Employees/Users
	Other sources and characteristics of the wastewater
7.	Acknowledgement: I,
	Signature of Owner Date
8.	Existing Environmental Permits: List any state or federal environmental permits already associated with this site or that are needed (check all that apply): New installation of an on-site wastewater treatment facility No other environmental permits exist Other environmental permits required (list all): Other environmental permits
9.	<u>Certification</u> : (READ CAREFULLY AND SIGN BELOW, to be completed by the property owner identified in Item Two (2) on the front of this application:
	I, certify that this Notice of Intent to Discharge and all attachments were prepared
	under my direction or authorization and all information is, to the best of my knowledge, true, accurate and complete. I also certify that the onsite wastewater treatment facility described in this form is or will be designed, constructed, and operated in accordance with terms and conditions of the authorized general aquifer protection permit(s) and applicable requirements of Arizona Revised Statues Title 49, Chapter 2, and Arizona Administrative Code Title 18, Chapter 9 regarding aquifer protection permits and the Maricopa County Health Code. I am aware that there are significant penalties for submitting false information including permit revocation as well as the possibility of fine and imprisonment for known violations.
	Signature Date